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Induction of prostate specific antigen production by steroids and tamoxifen in breast cancer cell lines.**Yu H, Diamandis EP, Zarghami N, Grass L.**

Department of Clinical Biochemistry, Toronto Western Division, Toronto Hospital, Ontario, Canada.

We demonstrate that the steroid hormone receptor-positive breast carcinoma cell lines T-47D and MCF-7 can be induced by androgens, progestins, mineralocorticosteroids, glucocorticosteroids, and antiestrogens, to produce prostate specific antigen (PSA). Estrogens failed to induce such stimulation in both cell lines and, in addition, were able to block the induction by androgen in the cell line T-47D. These data support and extend our previous report on PSA production by breast tumors and describe an in vitro system which can be used to study the phenomenon for possible application in prognosis and design of new therapy.

PMID: 7532467 [PubMed - indexed for MEDLINE]

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